

In re Application of:  
Hong et al.  
Application No.: Not Yet Assigned  
Filed: July 13, 2005  
Page 3

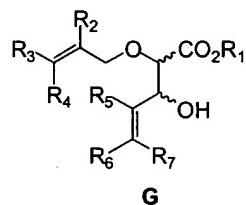
PATENT  
Attorney Docket No.: AUSP1100-1

**B. In the Claims**

Please cancel claims 1-5, 9-10, 12-17, 19-20, 24-27, 29-31, 33, 36-37, 41-53, 55-58, 61-65, 67-72, 75-78, 81-89, 100-104, 107-110, 112-116, 118-121, 124-128, 131-135, and 138-173 without prejudice. Upon entry of the amendment, the listing of claims will be as follows replacing all prior listings.

1-5 (Canceled)

6. (Currently amended) A Compounds of formula G, wherein:



wherein:

- a) R<sub>1</sub> is selected from the group consisting of alkyl, substituted alkyl and aryl;
- b) R<sub>2</sub> and R<sub>5</sub> are independently selected from the group consisting of hydrogen, alkyl, substituted alkyl and aryl; and
- c) R<sub>3</sub> = R<sub>4</sub> = R<sub>6</sub> = R<sub>7</sub> = hydrogen, or R<sub>3</sub>, R<sub>4</sub>, R<sub>6</sub>, R<sub>7</sub> are selected such that three out of four are hydrogen and the fourth is selected from the group consisting of alkyl, substituted alkyl and aryl.

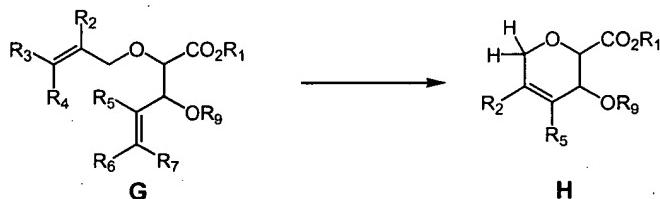
7. (Currently amended) The compound of claim 6, wherein the compound includes all All stereoisomers of a compound of formula G, wherein R<sub>1</sub> = ethyl and R<sub>2</sub> = R<sub>3</sub> = R<sub>4</sub> = R<sub>5</sub> = R<sub>6</sub> = R<sub>7</sub> = hydrogen, including (2R,3R)-2-Allyloxy-3-hydroxy-pent-4-enoic acid ethyl ester, (2S,3S)-2-

In re Application of:  
Hong et al.  
Application No.: Not Yet Assigned  
Filed: July 13, 2005  
Page 4

PATENT  
Attorney Docket No.: AUSP1100-1

Allyloxy-3-hydroxy-pent-4-enoic acid ethyl ester, (2R,3S)-2-Allyloxy-3-hydroxy-pent-4-enoic acid ethyl ester, and (2S,3R)-2-Allyloxy-3-hydroxy-pent-4-enoic acid ethyl ester.

8. (Currently amended) A process for preparing compound of formula **H** comprising contacting compound of formula **G** under conditions suitable to produce compound of formula **H**, where:



wherein:

- a)  $R_1$  is selected from the group consisting of alkyl, substituted alkyl and aryl;
- b)  $R_2$  and  $R_5$  are independently selected from the group consisting of hydrogen, alkyl, substituted alkyl and aryl;
- c)  $R_3 = R_4 = R_6 = R_7 =$  hydrogen, or  $R_3, R_4, R_6, R_7$  are selected such that three out of four are hydrogen and the fourth is selected from the group consisting of alkyl, substituted alkyl and aryl; and
- d)  $R_9$  is selected from the group consisting of hydrogen, alkyl, substituted alkyl, aryl and hydroxyl protecting group.

9-10. (Canceled).

11. (Currently amended). A The process according to claim 8, wherein carboxylic ester of formula **G** is contacted with a ring-closing metathesis catalyst selected from the group consisting of 2,6-diisopropylphenylimidophylidene molybdenum (IV) bis-(tert-butoxide), 2,6-diisopropylphenylimidophylidene molybdenum (IV) bis-(hexafluoro-tert-butoxide), 2,6-

In re Application of:  
Hong et al.  
Application No.: Not Yet Assigned  
Filed: July 13, 2005  
Page 5

PATENT  
Attorney Docket No.: AUSP1100-1

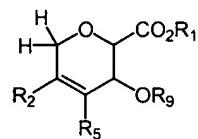
diisopropylphenylimidoneophylidene[racemic-BIPHEN] molybdenum (IV), 2,6-diisopropylphenylimidoneophylidene[(R)-(+)-BIPHEN] molybdenum (IV), 2,6-diisopropylphenylimidoneophylidene[(S)-(-)-BIPHEN] molybdenum (IV), bis-(tricyclohexylphosphine)benzylidene ruthenium (IV) dichloride, bis-(tricyclohexylphosphine)-3-methyl-2-butenylidene ruthenium (IV) dichloride, bis-(triclopentylphosphine)benzylidene ruthenium (IV) dichloride, bis-(triclopentylphosphine)-3-methyl-2-butenylidene ruthenium (IV) dichloride, tricyclohexylphosphine-(1,3-bis(2,4,6-trimethylphenyl)-4,5-dihydroimidazol-2-ylidene)-benzylidene ruthenium (IV) dichloride, tricyclohexylphosphine-(1,3-bis(2,6-diisopropylphenyl)-4,5-dihydroimidazol-2-ylidene)-benzylidene ruthenium (IV) dichloride, (1,3-bis(2,4,6-trimethylphenyl)-4,5-dihydroimidazol-2-ylidene)-2-isopropoxyphenylmethylen ruthenium (IV) dichloride, (triclopentylphosphine)-2-isopropoxyphenylmethylen ruthenium (IV) dichloride, and (triclopentylphosphine)-2-methoxy-3-naphthylmethylen ruthenium (IV) dichloride under conditions suitable to produce compound of formula **H**.

12-17 (Canceled).

18. (Currently amended). A The process according to claim 8, wherein R<sub>1</sub> = ethyl, and R<sub>2</sub> = R<sub>3</sub> = R<sub>4</sub> = R<sub>5</sub> = R<sub>6</sub> = R<sub>7</sub> = R<sub>9</sub> = hydrogen, or R<sub>1</sub> = ethyl, and R<sub>6</sub> = methyl, and R<sub>2</sub> = R<sub>3</sub> = R<sub>4</sub> = R<sub>5</sub> = R<sub>7</sub> = R<sub>9</sub> = hydrogen, or R<sub>1</sub> = ethyl, and R<sub>6</sub> = phenyl, and R<sub>2</sub> = R<sub>3</sub> = R<sub>4</sub> = R<sub>5</sub> = R<sub>7</sub> = R<sub>9</sub> = hydrogen.

19-20. (Canceled).

21. (Currently amended). A Compounds of formula **H**, where:



**H**

In re Application of:

Hong et al.

Application No.: Not Yet Assigned

Filed: July 13, 2005

Page 6

PATENT

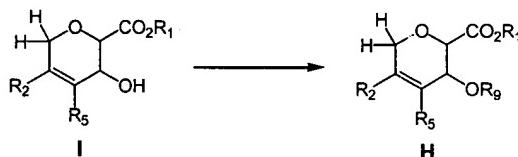
Attorney Docket No.: AUSP1100-1

wherein:

- a)  $R_1$  is selected from the group consisting of alkyl, substituted alkyl and aryl;
- b)  $R_2$  and  $R_5$  are independently selected from the group consisting of hydrogen, alkyl, substituted alkyl and aryl; and
- c)  $R_9$  is selected from the group consisting of hydrogen, alkylcarbonyl, substituted alkylcarbonyl, arylcarbonyl and hydroxyl protecting group.

22. (Currently amended) The compound of claim 21, wherein the compound includes all All stereoisomers of a compound of formula H, wherein  $R_1$  = ethyl and  $R_2$  =  $R_5$  =  $R_9$  = hydrogen, or  $R_1$  = ethyl and  $R_2$  =  $R_5$  = hydrogen and  $R_9$  = acetyl, including (2R,3R)-3-hydroxy-3,6-dihydro-2H-pyran-2-carboxylic acid ethyl ester, (2S,3S)-3-hydroxy-3,6-dihydro-2H-pyran-2-carboxylic acid ethyl ester, (2S,3R)-3-hydroxy-3,6-dihydro-2H-pyran-2-carboxylic acid ethyl ester, (2R,3S)-3-hydroxy-3,6-dihydro-2H-pyran-2-carboxylic acid ethyl ester, (2R,3R) 3-acetoxy-3,6-dihydro-2H-pyran-2-carboxylic acid ethyl ester, (2S,3S) 3-acetoxy-3,6-dihydro-2H-pyran-2-carboxylic acid ethyl ester, (2R,3S) 3-acetoxy-3,6-dihydro-2H-pyran-2-carboxylic acid ethyl ester, (2S,3R) 3-acetoxy-3,6-dihydro-2H-pyran-2-carboxylic acid ethyl ester.

23. (Currently amended) A process for preparing compound of formula H comprising contacting compound of formula I with a resolving enzyme and an acylating agent under suitable conditions to produce optically pure 3,6-dihydro-2H-pyran of formula H, where:



wherein:

- a)  $R_1$  is selected from the group consisting of alkyl, substituted alkyl and aryl;

In re Application of:  
Hong et al.  
Application No.: Not Yet Assigned  
Filed: July 13, 2005  
Page 7

PATENT  
Attorney Docket No.: AUSP1100-1

- b) R<sub>2</sub> and R<sub>5</sub> are independently selected from the group consisting of hydrogen, alkyl, substituted alkyl and aryl; and
- c) R<sub>9</sub> is selected from the group consisting of hydrogen, alkylcarbonyl, substituted alkylcarbonyl and arylcarbonyl.

24-27. (Canceled).

28. (Currently amended). A The process according to claim 23, wherein the resolving enzyme enzymatic resolution comprises an enzyme-catalyzed transesterification of a compound of formula I, wherein the enzymatic resolution includes the use of a lipase, esterase, peptidase, acylase or protease enzyme of mammalian, plant, fungal or bacterial origin is selected from the group consisting of Lipase Amano lipase PS-D (immobilized lipase from Pseudomonas cepacia), Amano Lipase PS-C (immobilized lipase from Pseudomonas cepacia), Roche Chirazyme L-3 (lipase, lyophilizate, from Candida Rugosa), Roche Chirazyme L-3 (purified lipase, lyophilizate, from Candida Rugosa), Roche Chirazyme L-3 (purified lipase, carrier-fixed, carrier 2, lyophilizate, from Candida rugosa), Roche Chirazyme L-5 (lipase, solution, from Candida antartica, type A), Roche Chirazyme L-5 (lipase, lyophilizate, from Candida antartica, type A), Roche Chirazyme L-5 (lipase, carrier-fixed, carrier 1, lyophilizate, from Candida antartica, type A), Roche Chirazyme L-10 (lipase, lyophilizate, from Alcaligenes sp.), Altus Biologics 8 (lipase from Mucor meihei) and Altus Biologics 27 (lipase from Alcaligenes sp.), and wherein the acylating agent is selected from the group consisting of ethyl acetate, vinyl acetate, vinyl propionate, vinyl butyrate, isopropenyl acetate, 1-ethoxyvinyl acetate, trichloroethyl butyrate, trifluoroethyl butyrate, trifluoroethyl laureate, S-ethyl thiooctanoate, biacetyl mono oxime acetate, acetic anhydride, succinic anhydride, amino acid and diketene, and where the reaction is carried out between 0°C and 40°C in a solvent or in mixtures of solvents selected from the group consisting of acetonitrile, dichloromethane, dichloroethane, diethyl ether, dioxane, tetrahydrofuran, dimethyl formamide, dimethyl acetamide, N-methylpyrrolidine, dimethyl

In re Application of:  
Hong et al.  
Application No.: Not Yet Assigned  
Filed: July 13, 2005  
Page 8

PATENT  
Attorney Docket No.: AUSP1100-1

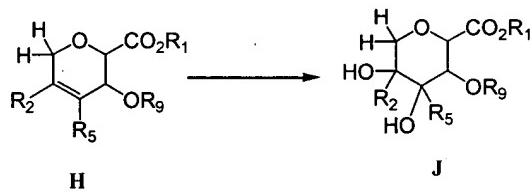
sulfoxide, benzene, toluene, dichlorobenzene, xylene, methanol, ethanol, isopropanol and water  
and wherein the optically pure 3,6-dihydro-2H-pyran H is isolated by the use of at least one  
method selected from the group consisting of chromatography, crystallization, re-crystallization  
and distillation.

29-31. (Canceled).

32. (Currently amended). A process according to claim 23, wherein R<sub>1</sub> is ethyl, R<sub>2</sub> and R<sub>5</sub> are hydrogen, and R<sub>9</sub> is selected from the group consisting of hydrogen and acetyl, and wherein the substituted 3,6-dihydro-2H-pyran H selected from the group consisting of (2R,3R) 3-acetoxy-3,6-dihydro-2H-pyran-2-carboxylic acid ethyl ester, (2S,3S) 3-hydroxy-3,6-dihydro-2H-pyran-2-carboxylic acid ethyl ester, (2S,3R) 3-acetoxy-3,6-dihydro-2H-pyran-2-carboxylic acid ethyl ester, and (2R,3S) 3-hydroxy-3,6-dihydro-2H-pyran-2-carboxylic acid ethyl ester.

33. (Canceled).

34. (Currently amended). A process for preparing compound of formula J, comprising contacting compound of formula H under conditions suitable to produce a substituted tetrahydropyran of formula J, where:



wherein:

- a) R<sub>1</sub> is selected from the group consisting of alkyl, substituted alkyl and aryl;

In re Application of:

Hong et al.

Application No.: Not Yet Assigned

Filed: July 13, 2005

Page 9

PATENT

Attorney Docket No.: AUSP1100-1

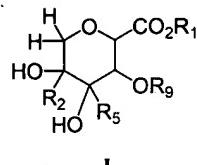
- b)  $R_2$  and  $R_5$  are independently selected from the group consisting of hydrogen, alkyl, substituted alkyl and aryl; and
- c)  $R_9$  is selected from the group consisting of hydrogen, alkyl, substituted alkyl, alkylcarbonyl, substituted alkylcarbonyl, aryl, arylcarbonyl and hydroxyl protecting group.

35. (Currently amended). A The process according to claim 34, wherein the compound of formula **H** is contacted with any suitable mixtures of compounds selected from the group consisting of osmium tetroxide, potassium permanganate, thallium acetate, potassium periodate, silver acetate, N-methylmorpholine oxide, trimethylamine oxide, tert-butyl peroxide, iodine, potassium ferricyanide, pyridine, quinuclidine, dihydroquinine acetate, dihydroquinidine acetate, dihydroquinine anthraquinone-1,4-diyl diether ((DHQ)<sub>2</sub>AQN), dihydroquinine phthalazine-1,4-diyl diether ((DHQ)<sub>2</sub>PHAL), dihydroquinine 2,5-diphenyl-4,6-pyrimidinediyl diether ((DHQ)<sub>2</sub>PYR), dihydroquinidine anthraquinone-1,4-diyl diether ((DHQD)<sub>2</sub>AQN), dihydroquinidine phthalazine-1,4-diyl diether ((DHQD)<sub>2</sub>PHAL), dihydroquinidine 2,5-diphenyl-4,6-pyrimidinediyl diether ((DHQD)<sub>2</sub>PYR), tetraethyl ammonium hydroxide, tetraethyl ammonium acetate, and N,N,N',N'-tetramethylene diamine under conditions suitable to produce compound of formula **J**.

36-37. (Canceled).

38. (Currently amended). A The process according to claim 34, wherein  $R_1$  = ethyl, and  $R_2$  =  $R_5$  = hydrogen and  $R_9$  = acetyl, or  $R_1$  = ethyl, and  $R_2$  =  $R_5$  =  $R_9$  = hydrogen.

39. (Currently amended). A Ecompounds of formula **J**, where:



In re Application of:

Hong et al.

Application No.: Not Yet Assigned

Filed: July 13, 2005

Page 10

PATENT

Attorney Docket No.: AUSP1100-1

wherein:

- a) R<sub>1</sub> is selected from the group consisting of hydrogen, alkyl, substituted alkyl and aryl;
- b) R<sub>2</sub> and R<sub>5</sub> are independently selected from the group consisting of hydrogen, alkyl, substituted alkyl and aryl; and
- c) R<sub>9</sub> is selected from the group consisting of hydrogen, alkyl, substituted alkyl, substituted alkylcarbonyl, alkylcarbonyl, aryl, arylcarbonyl and hydroxyl protecting group[.].

With the further proviso that:

1. ~~S~~stereoisomers (2R,3R,4S,5S), (2R,3S,4S,5R), (2R,3R,4R,5R), (2R,3R,4S,5R), (2S,3R,4R,5R) ~~cannot do not~~ have R<sub>1</sub> = hydrogen or methyl and R<sub>2</sub> = R<sub>5</sub> = R<sub>9</sub> = hydrogen
2. ~~S~~stereoisomer (2S,3S,4R,5R) ~~cannot does not~~ have R<sub>1</sub> = hydrogen or methyl and R<sub>2</sub> = R<sub>5</sub> = R<sub>9</sub> = hydrogen[.].

40. (Currently amended). The Ecompounds according to claim 39, wherein the compound of formula J is selected from the group consisting of (1R,2R,3R,4R) 3-acetoxy-4,5-dihydroxy-tetrahydropyran-2-carboxylic acid ethyl ester, (1R,2R,3S,4S) 3-acetoxy-4,5-dihydroxy-tetrahydropyran-2-carboxylic acid ethyl ester, (1S,2S,3R,4R) 3-acetoxy-4,5-dihydroxy-tetrahydropyran-2-carboxylic acid ethyl ester, (1S,2S,3S,4S) 3-acetoxy-4,5-dihydroxy-tetrahydropyran-2-carboxylic acid ethyl ester, (1R,2S,3R,4R) 3-acetoxy-4,5-dihydroxy-tetrahydropyran-2-carboxylic acid ethyl ester, (1R,2S,3S,4S) 3-acetoxy-4,5-dihydroxy-tetrahydropyran-2-carboxylic acid ethyl ester, (1S,2R,3R,4R) 3-acetoxy-4,5-dihydroxy-tetrahydropyran-2-carboxylic acid ethyl ester, (1S,2R,3S,4S) 3-acetoxy-4,5-dihydroxy-tetrahydropyran-2-carboxylic acid ethyl ester, (1R,2R,3R,4R) 3-4,5-trihydroxy-tetrahydropyran-2-carboxylic acid ethyl ester, (1R,2R,3S,4S) 3-4,5-trihydroxy-tetrahydropyran-2-carboxylic acid

In re Application of:

Hong et al.

Application No.: Not Yet Assigned

Filed: July 13, 2005

Page 11

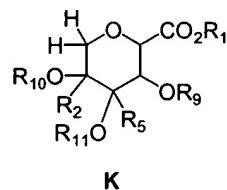
PATENT

Attorney Docket No.: AUSP1100-1

ethyl ester, (1S,2S,3R,4R) 3-4,5-trihydroxy-tetrahydropyran-2-carboxylic acid ethyl ester, (1S,2S,3S,4S) 3-4,5-trihydroxy-tetrahydropyran-2-carboxylic acid ethyl ester, (1R,2S,3R,4R) 3-4,5-trihydroxy-tetrahydropyran-2-carboxylic acid ethyl ester, (1R,2S,3S,4S) 3-4,5-trihydroxy-tetrahydropyran-2-carboxylic acid ethyl ester, (1S,2R,3R,4R) 3-4,5-trihydroxy-tetrahydropyran-2-carboxylic acid ethyl ester, and (1S,2R,3S,4S) 3-4,5-trihydroxy-tetrahydropyran-2-carboxylic acid ethyl ester.

41-53. (Canceled).

54. (Currently amended). A Compounds of formula K, where:



wherein:

- R<sub>1</sub> is selected from the group consisting of alkyl, substituted alkyl and aryl;
- R<sub>2</sub> and R<sub>5</sub> are independently selected from the group consisting of hydrogen, alkyl, substituted alkyl and aryl;
- R<sub>9</sub>, R<sub>10</sub> and R<sub>11</sub> are independently selected from the group consisting of hydrogen, alkyl, substituted alkyl, alkylcarbonyl, substituted alkylcarbonyl, aryl, arylcarbonyl and hydroxyl protecting group[.].

With the further proviso that

- Stereoisomers (2R, 3R, 4S, 5S), (2R, 3S, 4S, 5R), (2R, 3R, 4R, 5R), (2R, 3R, 4S, 5R), (2S, 3R, 4R, 5R), (2S, 3S, 4R, 5S), (2R, 3S, 4R, 5S) cannot do not have R<sub>1</sub> = methyl and R<sub>2</sub> = R<sub>5</sub> = hydrogen and R<sub>9</sub> = R<sub>10</sub> = R<sub>11</sub> = acetyl;

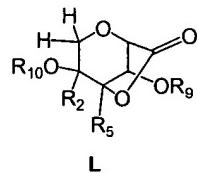
In re Application of:  
Hong et al.  
Application No.: Not Yet Assigned  
Filed: July 13, 2005  
Page 12

PATENT  
Attorney Docket No.: AUSP1100-1

2. ~~S~~tereoisomers (2R, 3R, 4S, 5S), (2R, 3S, 4S, 5R), (2R, 3R, 4R, 5R), (2R, 3R, 4S, 5R), (2S, 3R, 4R, 5R), (2S, 3S, 4R, 5R) ~~cannot do not~~ have R<sub>1</sub> = methyl and R<sub>2</sub> = R<sub>5</sub> = R<sub>9</sub> = R<sub>10</sub> = R<sub>11</sub> = hydrogen[.];
3. ~~S~~tereoisomers (2R, 3R, 4S, 5S), (2R, 3S, 4S, 5R), (2R, 3R, 4R, 5R), (2R, 3R, 4S, 5R), (2S, 3R, 4R, 5R), (2S, 3S, 4R, 5R) ~~cannot do not~~ have R<sub>1</sub> = R<sub>2</sub> = R<sub>5</sub> = R<sub>9</sub> = R<sub>10</sub> = R<sub>11</sub> = hydrogen;
- 4 2. ~~S~~tereoisomers (2S, 3S, 4R, 5R), (2R, 3S, 4R, 5R) ~~cannot do not~~ have R<sub>1</sub> = R<sub>10</sub> = R<sub>11</sub> = methyl and R<sub>2</sub> = R<sub>5</sub> = hydrogen and R<sub>9</sub> = acetyl;
- 5 3. ~~S~~tereoisomers (2S, 3S, 4R, 5R), (2R, 3S, 4R, 5R) ~~cannot do not~~ have R<sub>1</sub> = R<sub>10</sub> = R<sub>11</sub> = methyl and R<sub>2</sub> = R<sub>5</sub> = hydrogen and R<sub>9</sub> = benzoyl;
- 6 4. ~~S~~tereoisomer (2S, 3R, 4R, 5S) ~~cannot does not~~ have R<sub>1</sub> = R<sub>2</sub> = R<sub>5</sub> = hydrogen and R<sub>9</sub> = R<sub>10</sub> = R<sub>11</sub> = acetyl; and
- 7 5. ~~S~~tereoisomer (1S, 4R, 5R, 8S) ~~cannot does not~~ have R<sub>1</sub> = methyl R<sub>2</sub> = R<sub>5</sub> = R<sub>11</sub> = hydrogen and R<sub>9</sub> = R<sub>10</sub> = benzyl.

55-58. (Canceled).

59. (Currently amended). A Compounds of formula L, where:



wherein:

- a) R<sub>2</sub> and R<sub>5</sub> are independently selected from the group consisting of hydrogen, alkyl, substituted alkyl and aryl;

In re Application of:

Hong et al.

Application No.: Not Yet Assigned

Filed: July 13, 2005

Page 13

PATENT

Attorney Docket No.: AUSP1100-1

- b) R<sub>9</sub> and R<sub>10</sub> are independently selected from the group consisting of hydrogen, alkyl, substituted alkyl, alkylcarbonyl, substituted alkylcarbonyl, aryl, arylcarbonyl and hydroxyl protecting group[.].

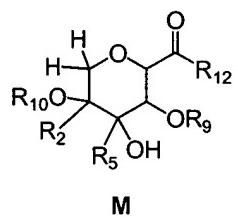
With the further proviso that:

1. ~~Stereoisomer (1S, 4R, 5R, 8S) cannot does not have R<sub>2</sub> = R<sub>5</sub> = R<sub>9</sub> = R<sub>10</sub> = hydrogen[.]~~;
2. ~~Stereoisomer (1S, 4R, 5R, 8S) cannot does not have R<sub>2</sub> = R<sub>5</sub> = R<sub>10</sub> = hydrogen and R<sub>9</sub> = benzoyl;~~
3. ~~Stereoisomer (1S, 4R, 5R, 8S) cannot does not have R<sub>2</sub> = R<sub>5</sub> = hydrogen and R<sub>9</sub> = R<sub>10</sub> = benzoyl; and~~
4. ~~Stereoisomer (1S, 4R, 5R, 8S) cannot does not have R<sub>2</sub> = R<sub>5</sub> = hydrogen and R<sub>9</sub> = R<sub>10</sub> = benzyl.~~

60. (Currently amended). The compound according to claim 59, wherein the compound of formula L is selected from the group consisting of (1R,4S,5S,8R)-8-acetoxy-4-hydroxy-2,6-dioxa-bicyclo[3.2.1]octan-7-one), and (1R,4S,5S,8R)-4,8-hydroxy-2,6-dioxa-bicyclo[3.2.1]octan-7-one.

61-65. (Canceled).

66. (currently amended) A compound of formula M, where



In re Application of:  
Hong et al.  
Application No.: Not Yet Assigned  
Filed: July 13, 2005  
Page 14

PATENT  
Attorney Docket No.: AUSP1100-1

wherein:

- a) R<sub>2</sub> and R<sub>5</sub> are independently selected from the group consisting of hydrogen, alkyl, substituted alkyl and aryl;
- b) R<sub>9</sub> and R<sub>10</sub> are independently selected from the group consisting of hydrogen, alkyl, substituted alkyl, alkylcarbonyl, substituted alkylcarbonyl, aryl, arylcarbonyl and hydroxyl protecting group[.]; and
- c) R<sub>12</sub> = alkyl, substituted alkyl, aryl, hydroxy, alkyloxy, substituted alkyloxy, aryloxy, amino, alkylamino, arylamino, nitrogen containing saturated heterocyclic compound, O-protected amino acid and solid support[.],

With the further proviso that:

- 1. ~~Stereoisomers (2R, 3R, 4S, 5S), (2R, 3S, 4S, 5R), (2R, 3R, 4R, 5R), (2R, 3R, 4S, 5R), (2S, 3R, 4R, 5R), (2S, 3S, 4R, 5R) cannot do not have R<sub>12</sub> = hydroxy and R<sub>2</sub> = R<sub>5</sub> = R<sub>9</sub> = R<sub>10</sub> = hydrogen[.]~~
- 2. ~~Stereoisomers (2R, 3R, 4S, 5S), (2R, 3S, 4S, 5R), (2R, 3R, 4R, 5R), (2R, 3R, 4S, 5R), (2S, 3R, 4R, 5R), (2S, 3S, 4R, 5R) cannot do not have R<sub>12</sub> = methoxy and R<sub>2</sub> = R<sub>5</sub> = R<sub>9</sub> = R<sub>10</sub> = hydrogen[.]~~
- 3. ~~Stereoisomers (2R, 3R, 4S, 5S), (2R, 3S, 4S, 5R), (2R, 3R, 4R, 5R), (2R, 3R, 4S, 5R), (2S, 3R, 4R, 5R), (2S, 3S, 4R, 5S) cannot do not have R<sub>12</sub> = amino and R<sub>2</sub> = R<sub>5</sub> = R<sub>9</sub> = R<sub>10</sub> = hydrogen[.]~~; and
- 4. ~~Stereoisomer (1S, 4R, 5R, 8S) cannot does not have R<sub>2</sub> = R<sub>5</sub> = hydrogen and R<sub>9</sub> = R<sub>10</sub> = benzyl and R<sub>12</sub> = methoxy.~~

67-71. (Canceled).

72. (Currently amended) A compound of formula N, where:

In re Application of:

Hong et al.

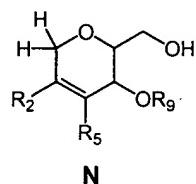
Application No.: Not Yet Assigned

Filed: July 13, 2005

Page 15

PATENT

Attorney Docket No.: AUSP1100-1



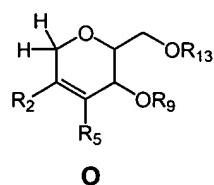
wherein:

- a) R<sub>2</sub> and R<sub>5</sub> are independently selected from the group consisting of hydrogen, alkyl, substituted alkyl and aryl; and
- b) R<sub>9</sub> is selected from the group consisting of hydrogen, alkyl, substituted alkyl, alkylcarbonyl, substituted alkylcarbonyl, aryl, arylcarbonyl and hydroxyl protecting group,

With the further proviso that for compounds of formula N, stereoisomers (2R,3S), (2S,3R) and (2R,3R) cannot do not have R<sub>2</sub> = R<sub>5</sub> = R<sub>9</sub> = hydrogen.

73. (Currently amended). The compound of claim 72, wherein the compound is the (2S,3S) stereoisomer of formula N, wherein R<sub>2</sub> = R<sub>5</sub> = R<sub>9</sub> = hydrogen ((2S,3S)-2-Hydroxymethyl-3,6-dihydro-2H-pyran-3-ol).

74. (Currently amended). A Compounds of formula O, where:



wherein:

- a) R<sub>2</sub> and R<sub>5</sub> are independently selected from the group consisting of hydrogen, alkyl, substituted alkyl and aryl;

In re Application of:

Hong et al.

Application No.: Not Yet Assigned

Filed: July 13, 2005

Page 16

PATENT

Attorney Docket No.: AUSP1100-1

- b) R<sub>9</sub> is selected from the group consisting of alkyl, substituted alkyl, alkylcarbonyl, substituted alkylcarbonyl, aryl, arylcarbonyl and hydroxyl protecting group; and
- c) R<sub>13</sub> is selected from the group consisting of hydrogen, alkyl, substituted alkyl, aryl, alkylcarbonyl, arylcarbonyl, and hydroxyl protecting group,

With the further proviso that for the compounds of formula O,

- 1) ~~S~~stereoisomers (2R,3S), (2S,3R) and (2R,3R) ~~cannot do not~~ have R<sub>9</sub> = R<sub>13</sub> = acetyl;
- 2) ~~S~~stereoisomer (2R,3S) ~~cannot does not~~ have R<sub>9</sub> = 2-bromoallyl and R<sub>13</sub> = tert-butyldimethylsilyl;
- 3) ~~S~~stereoisomer (2R,3S) ~~cannot does not~~ have R<sub>9</sub> = 2-bromobenzyl and R<sub>13</sub> = tert-butyldimethylsilyl;
- 4) ~~S~~stereoisomer (2R,3S) ~~cannot does not~~ have R<sub>9</sub> = 2-bromocyclopent-1-ene and R<sub>13</sub> = tert-butyldimethylsilyl;
- 5) ~~S~~stereoisomer (2R,3S) ~~cannot does not~~ have R<sub>9</sub> = 2-bromocyclohex-1-ene and R<sub>13</sub> = tert-butyldimethylsilyl;
- 6) ~~S~~stereoisomer (2R,3S) ~~cannot does not~~ have R<sub>9</sub> = trichloromethylimidate [C(=NH)CCl<sub>3</sub>] and R<sub>13</sub> = acetyl;
- 7) ~~S~~stereoisomer (2R,3S) ~~cannot does not~~ have R<sub>9</sub> = trichloromethylimidate [C(=NH)CCl<sub>3</sub>] and R<sub>13</sub> = tert-butyldimethylsilyl;
- 8) ~~S~~stereoisomer (2R,3S) ~~cannot does not~~ have R<sub>9</sub> = 4-methoxyphenylaminocarboxy [4-CH<sub>3</sub>OC<sub>6</sub>H<sub>4</sub>NHC(=O)] and R<sub>13</sub> = benzoyl;
- 9) ~~S~~stereoisomer (2R,3S) ~~cannot does not~~ have R<sub>9</sub> = 4-methoxyphenylaminocarboxy [4-CH<sub>3</sub>OC<sub>6</sub>H<sub>4</sub>NHC(=O)] and R<sub>13</sub> = tert-butyldimethylsilyl;
- 10) ~~S~~stereoisomer (2S,3R) ~~cannot does not~~ have R<sub>9</sub> = allyl and R<sub>13</sub> = tosyl;
- 11) ~~S~~stereoisomer (2R,3R) ~~cannot does not~~ have R<sub>9</sub> = R<sub>13</sub> = benzoyl;

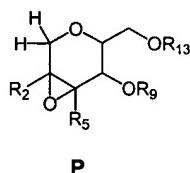
In re Application of:  
Hong et al.  
Application No.: Not Yet Assigned  
Filed: July 13, 2005  
Page 17

PATENT  
Attorney Docket No.: AUSP1100-1

- 12) ~~S~~tereoisomer (2R,3R) ~~cannot does not have R<sub>9</sub> = 2-bromoallyl and R<sub>13</sub> = tert-butyldimethylsilyl.~~

75-78. (Canceled).

79. (Currently amended). A Compounds of formula **P**, where:



wherein:

- R<sub>2</sub> and R<sub>5</sub> are independently selected from the group consisting of hydrogen, alkyl, substituted alkyl and aryl; and
- R<sub>9</sub> and R<sub>13</sub> are independently selected from the group consisting of hydrogen, alkyl, substituted alkyl, alkylcarbonyl, substituted alkylcarbonyl, aryl, arylcarbonyl and hydroxyl protecting group[.].

With the further proviso that:

- ~~S~~tereoisomer (1S,4R,5R,6R) ~~cannot does not have R<sub>9</sub> = hydrogen and R<sub>13</sub> = tert-butyldimethylsilyl; and~~
- ~~S~~tereoisomer (1S,4R,5R,6R) ~~cannot does not have R<sub>9</sub> = hydrogen and R<sub>13</sub> = tert-butyldiphenylsilyl.~~

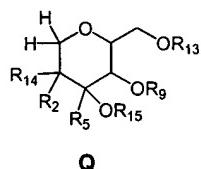
80. (Currently amended). The compound of claim 79, wherein the compound is selected from the group of the Stereoisomers (1R,4S,5S,6S), (1S,4S,5S,6R), (1R,4R,5R,6S), (1R,4S,5R,6S), (1S,4R,5S,6R), (1S,4S,5R,6R), (1R,4R,5S,6S) of compounds of formula **P**, wherein R<sub>2</sub> = R<sub>5</sub> = R<sub>9</sub> = hydrogen and R<sub>13</sub> = tert-butyldimethylsilyl.

In re Application of:  
Hong et al.  
Application No.: Not Yet Assigned  
Filed: July 13, 2005  
Page 18

PATENT  
Attorney Docket No.: AUSP1100-1

81-89. (Cancelled).

90. (Currently amended). A Compounds of formula Q, where:



wherein:

- a) R<sub>2</sub> and R<sub>5</sub> are independently selected from the group consisting of hydrogen, alkyl, substituted alkyl and aryl;
- b) R<sub>9</sub> is selected from the group consisting of hydrogen, alkyl, substituted alkyl, alkylcarbonyl, substituted alkylcarbonyl, aryl, arylcarbonyl and hydroxyl protecting group[.];
- c) R<sub>13</sub> = -C(O)OR<sup>8</sup>, wherein R<sup>8</sup> is selected from the group consisting of alkyl, substituted alkyl and aryl and more specifically R<sub>8</sub> is selected from the group consisting of methyl, methoxymethyl, 9-fluorenylmethyl, ethyl, 2,2,2-trichloromethyl, 1,1-dimethyl-2,2,2-trichloroethyl, 2-(trimethylsilyl)ethyl, 2-(phenylsulfonyl)ethyl, isobutyl, tert-Butyl, vinyl, allyl, 4-nitrophenyl, benzyl, 2-nitrobenzyl, 4-nitrobenzyl, 4-methoxybenzyl, 2,4-dimethoxybenzyl, 3,4-dimethoxybenzyl, 2-(methylthiomethoxy)ethyl, 2-dansenylethyl, 2-(4-nitrophenyl)ethyl, 2-(2,4-dinitrophenyl)ethyl, 2-cyano-1-phenylethyl, thiobenzyl and 4-ethoxy-1-naphthyl[.];
- d) R<sub>14</sub> is selected from the group consisting of hydrogen, halogen, alkyl, substituted alkyl, aryl, heteroaryl, saturated heteroaryl, cyano, azido, amino, alkylamino, arylamino, hydroxy, alkoxy, aryloxy, alkylthio, arylthio, alkylcarboxy,

In re Application of:  
Hong et al.  
Application No.: Not Yet Assigned  
Filed: July 13, 2005  
Page 19

PATENT  
Attorney Docket No.: AUSP1100-1

arylcarboxy, N-protected amino acid, O-protected amino acid and a solid support[.]; and

- e)  $R_{15} = \text{hydrogen.}$

91. Currently amended) The Ecompounds according to claim 90, wherein  $R_{13} = -\text{Si}(R^8)_3$ , wherein  $R^8$  is selected from the group consisting of alkyl, substituted alkyl and aryl, and more specifically  $R_{13}$  is further selected from the group consisting of trimethylsilyl, triethylsilyl, triisopropylsilyl, dimethylisopropylsilyl, diethylisopropylsilyl, dimethylhexylsilyl, tert-butyldimethylsilyl, tert-butyldiphenylsilyl, tribenzylsilyl, tri-p-xylylsilyl, triphenylsilyl, diphenylmethylsilyl, di-tert-butylmethylsilyl, tris(trimethylsilyl)silyl, (2-hydroxystyryl)dimethylsilyl, (2-hydroxystyryl)diisopropylsilyl, tert-butylmethoxyphenylsilyl, and tert-butoxydiphenylsilyl,

With the further proviso that:

1. ~~S~~tereoisomer (2R,3S,4R) cannot does not have  $R_9 = \text{benzyl}$  and  $R_2 = R_5 = R_{14} = \text{hydrogen}$  and  $R_{13} = \text{tert-butyldimethylsilyl}[.]$ ;
2. ~~S~~tereoisomer (2R,3S,4R) cannot does not have  $R_9 = R_2 = R_5 = R_{14} = \text{hydrogen}$  and  $R_{13} = \text{tert-butyldimethylsilyl}[.]$ ;
3. ~~S~~tereoisomer (2R,3S,4R) cannot does not have  $R_9 = R_2 = R_5 = R_{14} = \text{hydrogen}$  and  $R_{13} = \text{tert-butyldiphenylsilyl}[.]$ ;
4. ~~S~~tereoisomer (2R,3S,4S,5S) cannot does not have  $R_2 = R_5 = R_9 = \text{hydrogen}$  and  $R_{13} = \text{tert-butyldiphenylsilyl}$  and  $R_{14} = p\text{-toluenecarboxy}[.]$ ;
5. ~~S~~tereoisomer (2R,3S,4S,5S) cannot does not have  $R_2 = R_5 = R_9 = \text{hydrogen}$  and  $R_{13} = \text{tert-butyldimethylsilyl}$  and  $R_{14} = \text{tricholoroacetamide}[.]$ ; and
6. ~~S~~tereoisomers (2R,3S,4S,5R) and (2S,3R,4R,5S) cannot do not have  $R_2 = R_5 = R_9 = \text{hydrogen}$  and  $R_{13} = \text{tert-butyldimethylsilyl}$  and  $R_{14} = 5,6\text{-dichlorobenzimidazole.}$

In re Application of:

Hong et al.

Application No.: Not Yet Assigned

Filed: July 13, 2005

Page 20

PATENT

Attorney Docket No.: AUSP1100-1

92. (Currently amended) The Ecompounds according to claim 90, wherein R<sub>13</sub> is selected from the group consisting of benzyl, 2-nitrobenzyl, 2-trifluoromethylbenzyl, 4-methoxybenzyl, 4-nitrobenzyl, 4-chlorobenzyl, 4-bromobenzyl, 4-cyanobenzyl, 4-phenylbenzyl, 4-acylaminobenzyl, 4-azidobenzyl, 4-(methylsulfinyl)benzyl, 2,4-dimethoxybenzyl, 4-azido-3-chlorobenzyl, 3,4-dimethoxybenzyl, 2,6-dichlorobenzyl, 2,6-difluorobenzyl, 1-pyrenylmethyl, diphenylmethyl, 4,4'-dinitrobenzhydryl, 5-benzosuberyl, triphenylmethyl (trityl),  $\alpha$ -naphthylidiphenylmethyl, (4-methoxyphenyl)-diphenyl-methyl (MMT), di-(p-methoxyphenyl)-phenylmethyl, tri-(p-methoxyphenyl)methyl, 4-(4'-bromophenacyloxy)-phenyldiphenylmethyl, 4,4',4''-tris(4,5-dichlorophthalimidophenyl)methyl, 4,4',4''-tris(levulinoyloxyphenyl)methyl, 4,4'-dimethoxy-3''-[N-(imidazolylmethyl)]trityl, 4,4'-dimethoxy-3''-[N-(imidazolyethyl)carbamoyl]trityl, 1,1-bis(4-methoxyphenyl)-1'-pyrenylmethyl, 4-(17-tetrabeno[a,c,g,I]fluorenylmethyl)-4,4'-dimethoxytrityl, 9-anthryl, 9-(9-phenyl)xanthenyl, and 9-(9-phenyl-10-oxo)anthryl,

Wwith the further proviso that:

1. ~~S~~tereoisomer (2R, 3S, 4S, 5R) cannot does not have R<sub>2</sub> = R<sub>5</sub> = hydrogen and R<sub>9</sub> = benzoyl and R<sub>13</sub> = (4-methoxyphenyl)-diphenyl-methyl and R<sub>14</sub> = N-(9H-purin-6-yl)-benzamide[.];
2. ~~S~~tereoisomer (2R, 3S, 4S, 5R) cannot does not have R<sub>2</sub> = R<sub>5</sub> = hydrogen and R<sub>9</sub> = benzoyl and R<sub>13</sub> = (4-methoxyphenyl)-diphenyl-methyl and R<sub>14</sub> = 1H-pyrimidine-2,4-dione[.];
3. ~~S~~tereoisomer (2R, 3S, 4S, 5R) cannot does not have R<sub>2</sub> = R<sub>5</sub> = hydrogen and R<sub>9</sub> = benzoyl and R<sub>13</sub> = (4-methoxyphenyl)-diphenyl-methyl and R<sub>14</sub> = N-(2-oxo-1,2-dihydro-pyrimidin-4-yl)-benzamide[.];
4. ~~S~~tereoisomer (2R, 3S, 4S, 5R) cannot does not have R<sub>2</sub> = R<sub>5</sub> = hydrogen and R<sub>9</sub> = benzoyl and R<sub>13</sub> = (4-methoxyphenyl)-diphenyl-methyl and R<sub>14</sub> = N,N-dimethyl-N'-(6-oxo-6,9-dihydro-1H-purin-2-yl)-formamidine[.];

In re Application of:

Hong et al.

Application No.: Not Yet Assigned

Filed: July 13, 2005

Page 21

PATENT

Attorney Docket No.: AUSP1100-1

5. ~~Stereoisomer (2R, 3S, 4R) cannot does not have R<sub>2</sub> = R<sub>5</sub> = R<sub>9</sub> = R<sub>14</sub> = hydrogen and R<sub>13</sub> = triphenylmethyl[.];~~
6. ~~Stereoisomer (2R, 3S, 4S) cannot does not have R<sub>2</sub> = R<sub>5</sub> = R<sub>9</sub> = R<sub>14</sub> = hydrogen and R<sub>13</sub> = benzyl[.];~~
7. ~~Stereoisomers (2R, 3S, 4R, 5R) and (2R, 3S, 4R, 5S) cannot do not have R<sub>2</sub> = R<sub>5</sub> = R<sub>9</sub> = hydrogen and R<sub>13</sub> = triphenylmethyl and R<sub>14</sub> = hydroxy[.]; and~~
8. ~~Stereoisomer (2R, 3R, 4R) and (2S, 3S, 4S) cannot does not have R<sub>2</sub> = R<sub>9</sub> = R<sub>14</sub> = hydrogen and R<sub>5</sub> = methyl and R<sub>13</sub> = triphenylmethyl.~~

93. (Currently amended) ~~The~~ Compounds according to claim 90, wherein R<sub>13</sub> is selected from the group consisting of alkyl, substituted alkyl and aryl and more specifically R<sub>13</sub> is selected from the group consisting of methyl, tert-butyl, allyl, propargyl, p-chlorophenyl, p-methoxyphenyl, p-nitrophenyl, 2,4-dinitrophenyl, 2,3,5,6-tetrafluoro-4-(trifluoromethyl)phenyl, methoxymethyl, methylthiomethyl, (phenyldimethylsilyl)methoxymethyl, benzyloxymethyl, p-methoxybenzyloxymethyl, p-nitrobenzyloxymethyl, o-nitrobenzyloxymethyl, (4-methoxyphenoxy)methyl, guaiacolmethyl, tert-butoxymethyl, 4-pentyloxoymethyl, tert-butyldimethylsiloxyethyl, thexyldimethylsiloxyethyl, tert-butyldiphenylsiloxyethyl, 2-methoxyethoxymethyl, 2,2,2-trichloroethoxymethyl, bis(2-chloroethoxy)methyl, 2-(trimethylsilyl)ethoxymethyl, menthoxyethyl, 1-ethoxyethyl, 1-(2-chloroethoxy)ethyl, 1-[2-(trimethylsilyl)ethoxy]ethyl, 1-methyl-1-ethoxyethyl, 1-methyl-1-benzyloxyethyl, 1-methyl-1-benzyloxy-2-fluoroethyl, 1-methyl-1-phenoxyethyl, 2,2,2-trichloroethyl, 1-dianisyl-2,2,2-trichloroethyl, 1,1,1,3,3,3-hexafluoro-2-phenylisopropyl, 2-trimethylsilylethyl, 2-(benzylthio)ethyl, 2-(phenylselenyl)ethyl, tetrahydropyranyl, 3-bromotetrahydropyranyl, tetrahydrothiopyranyl, 1-methoxycyclohexyl, 4-methoxytetrahydropyranyl, 4-methoxytetrahydrothiopyranyl, 4-methoxytetrahydropyranyl S,S-dioxide, 1-[(2-chloro-4-methyl)phenyl]-4-methoxypiperidin-4-yl, 1-(2-fluorophenyl)-4-methoxypiperidin-4-yl, 1,4-dioxan-2-yl, tetrahydrofuran-2-yl, tetrahydrothiofuran-2-yl, and tetrahydrothiofuran-2-yl,

In re Application of:

Hong et al.

Application No.: Not Yet Assigned

Filed: July 13, 2005

Page 22

PATENT

Attorney Docket No.: AUSP1100-1

With the further proviso that:

1. ~~Compounds of formula Q cannot do not have R<sub>2</sub> = R<sub>5</sub> = R<sub>9</sub> = hydrogen and R<sub>13</sub> = allyl and R<sub>14</sub> = hydroxyl[.];~~
2. ~~Compounds of formula Q cannot do not have R<sub>2</sub> = R<sub>5</sub> = hydrogen and R<sub>9</sub> = R<sub>13</sub> = methyl and R<sub>14</sub> = methoxy[.];~~
3. ~~Stereoisomer (2R,3S,4R,5S) cannot does not have R<sub>2</sub> = R<sub>5</sub> = hydrogen and R<sub>9</sub> = R<sub>13</sub> = methyl and R<sub>14</sub> = methoxy[.];~~
4. ~~Stereoisomer (2R,3S,4R,5S) cannot does not have R<sub>2</sub> = R<sub>5</sub> = hydrogen and R<sub>9</sub> = benzyl and R<sub>13</sub> = methyl and R<sub>14</sub> = hydroxyl[.];~~
5. ~~Stereoisomer (2R,3S,4R,5S) cannot does not have R<sub>2</sub> = R<sub>5</sub> = hydrogen and R<sub>9</sub> = benzyl and R<sub>13</sub> = methyl and R<sub>14</sub> = methoxy[.];~~
6. ~~Stereoisomer (2R,3S,4S,5S) cannot does not have R<sub>2</sub> = R<sub>5</sub> = R<sub>9</sub> = hydrogen and R<sub>13</sub> = methyl and R<sub>14</sub> = methoxy[.]; and~~
7. ~~Stereoisomer (2R, 3S, 4R) cannot does not have R<sub>2</sub> = R<sub>5</sub> = R<sub>14</sub> = hydrogen and R<sub>9</sub> = R<sub>13</sub> = methyl.~~

94. The Compounds according to claim 90, wherein R<sub>13</sub> = -C(O)R<sup>8</sup>, wherein R<sup>8</sup> is selected from the group consisting of alkyl, substituted alkyl and aryl and more specifically R<sub>8</sub> is selected from the group consisting of hydrogen, methyl, ethyl, tert-butyl, adamantyl, crotyl, chloromethyl, dichloromethyl, trichloromethyl, trifluoromethyl, methoxymethyl, triphenylmethoxymethyl, phenoxyethyl, 4-chlorophenoxyethyl, phenylmethyl, diphenylmethyl, 4-methoxycrotyl, 3-phenylpropyl, 4-pentenyl, 4-oxopentyl, 4,4-(ethylenedithio)pentyl, 5-[3-bis(4-methoxyphenyl)hydroxymethylphenoxy]- 4-oxopentyl, phenyl, 4-methylphenyl, 4-nitrophenyl, 4-fluorophenyl, 4-chlorophenyl, 4-methoxyphenyl, 4-phenylphenyl, 2,4,6-trimethylphenyl, α-naphthyl, and benzoyl,

With the further proviso that:

In re Application of:

Hong et al.

Application No.: Not Yet Assigned

Filed: July 13, 2005

Page 23

PATENT

Attorney Docket No.: AUSP1100-1

1. ~~Stereoisomer (2R,3S,4R,5R) cannot does not have R<sub>2</sub> = R<sub>5</sub> = R<sub>9</sub> = hydrogen and R<sub>13</sub> = acetyl and R<sub>14</sub> = N-acetamido[.]~~;
2. ~~Stereoisomer (2R,3R,4S,5S) cannot does not have R<sub>2</sub> = R<sub>5</sub> = R<sub>9</sub> = hydrogen and R<sub>13</sub> = acetyl and R<sub>14</sub> = acetoxy[.]~~;
3. ~~Stereoisomer (2R,3S,4R) cannot does not have R<sub>2</sub> = R<sub>5</sub> = R<sub>14</sub> = hydrogen and R<sub>9</sub> = R<sub>13</sub> = tert-butylcarbonyl[.]~~;
4. ~~Stereoisomer (2R,3S,4R) cannot does not have R<sub>2</sub> = R<sub>5</sub> = R<sub>9</sub> = R<sub>14</sub> = hydrogen and R<sub>13</sub> = 1-naphthoyl[.]~~;
5. ~~Stereoisomer (2R,3S,4R) cannot does not have R<sub>2</sub> = R<sub>5</sub> = R<sub>9</sub> = R<sub>14</sub> = hydrogen and R<sub>13</sub> = 2-naphthoyl[.]~~;
6. ~~Stereoisomer (2R,3S,4R) cannot does not have R<sub>2</sub> = R<sub>5</sub> = R<sub>9</sub> = R<sub>14</sub> = hydrogen and R<sub>13</sub> = benzoyl[.]~~;
7. ~~Stereoisomer (2R,3S,4R) cannot does not have R<sub>2</sub> = R<sub>5</sub> = R<sub>9</sub> = R<sub>14</sub> = hydrogen and R<sub>13</sub> = 4-methoxybenzoyl[.]~~;
8. ~~Stereoisomer (2R, 3S, 4S, 5R) cannot does not have R<sub>2</sub> = R<sub>5</sub> = R<sub>9</sub> = hydrogen and R<sub>13</sub> = 3,4,5-trihydroxybenzoyl and R<sub>14</sub> = (3,4,5-trihydroxyphenyl)carboxy[.]~~;
9. ~~Stereoisomer (2R, 3S, 4R, 5R) cannot does not have R<sub>2</sub> = R<sub>5</sub> = R<sub>9</sub> = hydrogen and R<sub>13</sub> = benzoyl and R<sub>14</sub> = phenylcarboxy[.]~~;
10. ~~Stereoisomer (2R, 3R, 4R, 5R) cannot does not have R<sub>2</sub> = R<sub>5</sub> = R<sub>9</sub> = hydrogen and R<sub>13</sub> = benzoyl and R<sub>14</sub> = phenylcarboxy[.]~~;
11. ~~Stereoisomer (2R, 3S, 4R, 5R) cannot does not have R<sub>2</sub> = R<sub>5</sub> = hydrogen and R<sub>9</sub> = R<sub>13</sub> = benzoyl and R<sub>14</sub> = phenylcarboxy[.]~~;
12. ~~Stereoisomer (2R, 3S, 4R, 5R) cannot does not have R<sub>2</sub> = R<sub>5</sub> = hydrogen and R<sub>9</sub> = R<sub>13</sub> = benzoyl and R<sub>14</sub> = hydroxy[.]~~;

In re Application of:

Hong et al.

Application No.: Not Yet Assigned

Filed: July 13, 2005

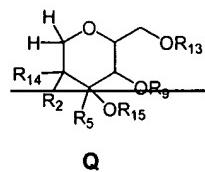
Page 24

PATENT

Attorney Docket No.: AUSP1100-1

13. ~~S~~scompounds of formula **Q** cannot do not have  $R_2 = R_5 = R_9 = \text{hydrogen}$  and  $R_{13} = 3\text{-}(3,4,5\text{-trimethoxyphenyl})\text{acryloyl}$  and  $R_{14} = \text{hydroxy}[.]$ ;
14. ~~C~~ompounds of formula **Q** cannot do not have  $R_2 = R_5 = R_9 = \text{hydrogen}$  and  $R_{13} = \text{formyl}$  and  $R_{14} = \text{hydroxy}[.]$ ;
15. ~~C~~ompounds of formula **Q** cannot do not have  $R_2 = R_5 = R_9 = \text{hydrogen}$  and  $R_{13} = \text{ethylcarbonyl}$  and  $R_{14} = \text{hydroxy}[.]$ ;
16. ~~C~~ompounds of formula **Q** cannot do not have  $R_2 = R_5 = R_9 = \text{hydrogen}$  and  $R_{14} = \text{hydroxy}$  and  $R_{13} = \text{aminomethylcarbonyl}[.]$ ;
17. ~~C~~ompounds of formula **Q** cannot do not have  $R_2 = R_5 = R_9 = \text{hydrogen}$  and  $R_{14} = \text{hydroxy}$  and  $R_{13} = 10\text{-aminodecylcarbonyl}[.]$ ;
18. ~~C~~ompounds of formula **Q** cannot do not have  $R_2 = R_5 = R_9 = \text{hydrogen}$  and  $R_{14} = \text{hydroxy}$  and  $R_{13} = 5\text{-aminopentylcarbonyl}[.]$ ;
19. ~~C~~ompounds of formula **Q** cannot do not have  $R_2 = R_5 = R_9 = \text{hydrogen}$  and  $R_{14} = \text{hydroxy}$  and  $R_{13} = \text{succinoyl}[.]$ ; and
20. ~~C~~ompounds of formula **Q** cannot do not have  $R_2 = R_5 = R_9 = \text{hydrogen}$  and  $R_{13} = 3,4,5\text{-trihydroxybenzoyl}$  and  $R_{14} = \text{hydroxy}$ .

95. (Currently amended) The Compounds of formula **Q** according to claim 90, wherein:



- a)  $R_2$  and  $R_5$  are independently selected from the group consisting of hydrogen, alkyl, substituted alkyl and aryl;
- b)  $R_9$ ,  $R_{13}$  are independently selected from the group consisting of hydrogen, alkylcarbonyl, substituted alkylcarbonyl, arylcarbonyl and hydroxyl protecting group.

In re Application of:

Hong et al.

Application No.: Not Yet Assigned

Filed: July 13, 2005

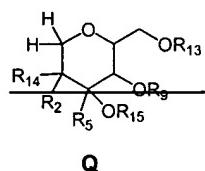
Page 25

PATENT

Attorney Docket No.: AUSP1100-1

- c)  $R_{14}$  is cyano[.]; and
- d)  $R_{15}$  is selected from the group consisting of hydrogen, trimethylsilyl, tert-butyldimethylsilyl, alkylcarbonyl, substituted alkylcarbonyl, arylcarbonyl and hydroxyl protecting group.

96. (Currently amended) The Compounds of formula Q according to claim 90, wherein:



- a)  $R_2$  and  $R_5$  are independently selected from the group consisting of hydrogen, alkyl, substituted alkyl and aryl;
- b)  $R_9$ ,  $R_{13}$  and  $R_{15}$  are independently selected from the group consisting of hydrogen, alkyl, substituted alkyl, aryl, alkylcarbonyl, substituted alkylcarbonyl, arylcarbonyl, trimethylsilyl, tert-butyldimethylsilyl and hydroxyl protecting group[.]; and
- c)  $R_{14}$  is selected from the group consisting of alkylthio and arylthio.

With the further proviso that:

1. ~~Stereoisomer (2R,3R,4S,5R) and (2R,3R,4S,5S) cannot does not have  $R_2 = R_5 =$  hydrogen,  $R_9 = R_{13} = R_{15} =$  acetyl, and  $R_{14} =$  ethylthio[.]~~
2. ~~Stereoisomer (2R,3R,4S,5R) and (2R,3R,4S,5S) cannot does not have  $R_2 = R_5 =$  hydrogen,  $R_9 = R_{13} = R_{15} =$  acetyl, and  $R_{14} =$  n-propylthio[.]~~
3. ~~Stereoisomers (2R,3S,4S,5R) and (2R,3S,4S,5S) cannot do not have  $R_2 = R_5 =$   $R_9 = R_{13} = R_{15} =$  hydrogen and  $R_{14} =$  benzylthio[.]~~; and

In re Application of:

Hong et al.

Application No.: Not Yet Assigned

Filed: July 13, 2005

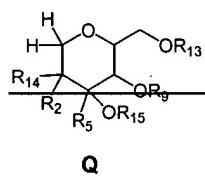
Page 26

PATENT

Attorney Docket No.: AUSP1100-1

4. ~~S~~tereoisomers (2R,3R,4S,5R) and (2R,3R,4S,5S) ~~cannot do not~~ have R<sub>2</sub> = R<sub>5</sub> = hydrogen, R<sub>9</sub> = R<sub>13</sub> = R<sub>15</sub> = acetyl, and R<sub>14</sub> = benzylthio.

97. (Currently amended) The Compounds of formula Q according to claim 90, wherein:



- a) R<sub>2</sub> and R<sub>5</sub> are independently selected from the group consisting of hydrogen, alkyl, substituted alkyl and aryl;
- b) R<sub>9</sub> is selected from the group consisting of hydrogen, alkyl, substituted alkyl, aryl, alkylcarbonyl, substituted alkylcarbonyl, arylcarbonyl, trimethylsilyl, tert-butyldimethylsilyl, and hydroxyl protecting group[.];
- c) R<sub>13</sub> is selected from the group consisting of alkyl, substituted alkyl, aryl, alkylcarbonyl, substituted alkylcarbonyl, arylcarbonyl, trimethylsilyl, tert-butyldimethylsilyl and hydroxyl protecting group[.];
- d) R<sub>15</sub> is hydrogen; and
- e) R<sub>14</sub> is NHR<sub>18</sub> where R<sub>18</sub> is selected from the group consisting of hydrogen, alkyl, substituted alkyl, aryl, alkylcarbonyl, substituted alkylcarbonyl, arylcarbonyl and amino protecting group[.].

With the further proviso that:

- 1. ~~S~~tereoisomers (2R,3S,4R,5R) ~~cannot do not~~ have R<sub>2</sub> = R<sub>5</sub> = R<sub>9</sub> = R<sub>15</sub> = hydrogen, R<sub>13</sub> = acetyl, and R<sub>14</sub> = acetamido[.]; and
- 2. ~~S~~tereoisomers (2R,3S,4S,5S) and (2R,3R,4R,5S) ~~cannot do not~~ have R<sub>2</sub> = R<sub>5</sub> = R<sub>9</sub> = R<sub>15</sub> = hydrogen, R<sub>13</sub> = tert-butyldimethylsilyl, and R<sub>14</sub> = trichloroacetamido.

In re Application of:

Hong et al.

Application No.: Not Yet Assigned

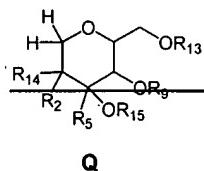
Filed: July 13, 2005

Page 27

PATENT

Attorney Docket No.: AUSP1100-1

98. (Currently amended) The compounds of formula Q according to claim 90, wherein:



- a) R<sub>2</sub> and R<sub>5</sub> are independently selected from the group consisting of hydrogen, alkyl, substituted alkyl and aryl;
- b) R<sub>9</sub> and R<sub>15</sub> are independently selected from the group consisting of hydrogen, alkyl, substituted alkyl, aryl, alkylcarbonyl, substituted alkylcarbonyl, arylcarbonyl, trimethylsilyl, tert-butyldimethylsilyl and hydroxyl protecting group[.];
- c) R<sub>13</sub> is selected from the group consisting of alkyl, substituted alkyl, aryl, alkylcarbonyl, substituted alkylcarbonyl, arylcarbonyl, trimethylsilyl, tert-butyldimethylsilyl and hydroxyl protecting group. [.] and
- d) R<sub>14</sub> is selected from the group consisting of phthalimide, substituted phthalimide, maleimide, substituted maleimide and NR<sub>18</sub>R<sub>19</sub> where R<sub>18</sub> and R<sub>19</sub> are independently selected from the group consisting of alkyl, substituted alkyl, alkylcarbonyl, substituted alkylcarbonyl, aryl, arylcarbonyl, heteroaryl, saturated heteroaryl and amino protecting group and R<sub>18</sub> and R<sub>19</sub> maybe taken together with the nitrogen to which they are attached forming a cyclic system containing 3 to 10 carbon atoms with at least one substituent as defined for a substituted alkyl[.].

With the further proviso that:

In re Application of:

Hong et al.

Application No.: Not Yet Assigned

Filed: July 13, 2005

Page 28

PATENT

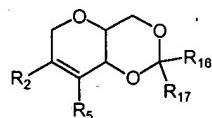
Attorney Docket No.: AUSP1100-1

1. ~~S~~stereoisomer (2R,3R,4R,5S) ~~cannot does not~~ have R<sub>2</sub> = R<sub>5</sub> = hydrogen, R<sub>9</sub> = R<sub>13</sub> = R<sub>15</sub> = acetyl, and R<sub>14</sub> = phthalimido[.];
2. ~~S~~stereoisomer (2R,3S,4R,5S) ~~cannot does not~~ have R<sub>2</sub> = R<sub>5</sub> = R<sub>9</sub> = R<sub>13</sub> = R<sub>15</sub> = hydrogen, and R<sub>14</sub> = dimethylamino hydrogen chloride[.];
3. ~~S~~stereoisomer (2R,3S,4R,5S) ~~cannot does not~~ have R<sub>2</sub> = R<sub>5</sub> = R<sub>9</sub> = R<sub>13</sub> = R<sub>15</sub> = hydrogen, and R<sub>14</sub> = trimethylaminoiodide[.]; and
4. ~~S~~stereoisomer (2R,3S,4R,5S) ~~cannot does not~~ have R<sub>2</sub> = R<sub>5</sub> = R<sub>9</sub> = R<sub>13</sub> = R<sub>15</sub> = hydrogen, and R<sub>14</sub> = N,N-(benzyloxycarboxy)methylamino.

99. (Original) All stereoisomers of the compounds selected from the group consisting of 5-benzylamino-2-(tert-butyldimethylsilanyloxymethyl)-tetrahydropyran-3,4-diol, 2-(tert-butyldimethylsilanyloxymethyl)-5-(3-methoxyphenylamino)-tetrahydropyran-3,4-diol, 2-hydroxymethyl-5-phenylsulfanyl-tetrahydropyran-3,4-diol, 6-(tert-butyldimethylsiloxy)-5-hydroxy-4(trimethylsiloxy)-tetrahydropyran-3-carbonitrile, 6-(tert-butyldimethylsiloxy)-5-hydroxy-4(tert-butyldimethylsiloxy)-tetrahydropyran-3-carbonitrile, 5-benzyloxy-2-(tert-butyldimethylsilanyloxymethyl)-tetrahydropyran-3,4-diol, 2-(tert-butyldimethylsilanyloxymethyl)-tetrahydropyran-3,5-diol, and 5-azido-2-(tert-butyldimethylsilanyloxymethyl)-tetrahydropyran-3,4-diol.

100-104. (Canceled).

105. (Currently amended). A Compounds of formula S, where:



**S**

In re Application of:

Hong et al.

Application No.: Not Yet Assigned

Filed: July 13, 2005

Page 29

PATENT

Attorney Docket No.: AUSP1100-1

wherein R<sub>2</sub>, R<sub>5</sub>, R<sub>16</sub> and R<sub>17</sub> are independently selected from the group consisting of hydrogen, alkyl, substituted alkyl and aryl,

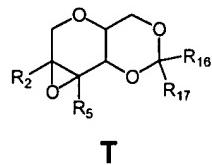
with the further proviso that:

1. ~~Stereoisomer (4aR,8aS) cannot does not have R<sub>2</sub> = R<sub>5</sub> = R<sub>16</sub> = hydrogen and R<sub>17</sub> = phenyl; and~~
2. ~~Stereoisomer (4aR,8aS) cannot does not have R<sub>2</sub> = R<sub>16</sub> = hydrogen, R<sub>5</sub> = (4-methoxyphenyl)-diphenylmethoxymethyl and R<sub>17</sub> = phenyl.~~

106. (Currently amended). The compound of claim 105, wherein the compound includes all stereoisomers of compounds of formula S, wherein R<sub>2</sub> = R<sub>5</sub> = hydrogen and R<sub>16</sub> = R<sub>17</sub> = methyl, wherein the specifically compounds is selected from the group consisting of (4aR,8aR)-2,2-dimethyl-4,4a,6,8a-tetrahydropyrano[3,2-d][1,3]dioxine, (4aS,8aS)-2,2-dimethyl-4,4a,6,8a-tetrahydropyrano[3,2-d][1,3]dioxine, (4aR,8aS)-2,2-dimethyl-4,4a,6,8a-tetrahydropyrano[3,2-d][1,3]dioxine, and (4aS,8aR)-2,2-dimethyl-4,4a,6,8a-tetrahydropyrano[3,2-d][1,3]dioxine.

107-110. (Canceled).

111. (Currently amended). A Compounds of formula T, where:



wherein R<sub>2</sub>, R<sub>5</sub>, R<sub>16</sub> and R<sub>17</sub> are independently selected from the group consisting of hydrogen, alkyl, substituted alkyl and aryl,

In re Application of:

Hong et al.

Application No.: Not Yet Assigned

Filed: July 13, 2005

Page 30

PATENT

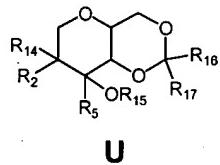
Attorney Docket No.: AUJSP1100-1

With the further proviso that:

- 1) ~~Stereoisomer (1aR,3aR,7aR,7bR) cannot does not~~ R<sub>2</sub> = R<sub>5</sub> = R<sub>16</sub> = hydrogen and R<sub>17</sub> = phenyl;
- 2) ~~Stereoisomer (1aS,3aR,7aR,7bS) cannot does not~~ have R<sub>2</sub> = R<sub>5</sub> = R<sub>16</sub> = hydrogen and R<sub>17</sub> = phenyl; and
- 3) ~~Stereoisomer (1aR,3aS,7aS,7bR) cannot does not~~ have R<sub>2</sub> = R<sub>5</sub> = R<sub>16</sub> = hydrogen and R<sub>17</sub> = phenyl.

112-116. (Canceled).

117. (Currently amended). A Compounds of formula U, where:



U

wherein:

- a) R<sub>2</sub>, R<sub>5</sub>, R<sub>16</sub> and R<sub>17</sub> are independently selected from the group consisting of hydrogen, alkyl, substituted alkyl and ary[.];
- b) R<sub>14</sub> is selected from the group consisting of hydrogen, halogen, alkyl, substituted alkyl, aryl, heteroaryl, saturated heteroaryl, cyano, azido, amino, alkylamino, arylamino, hydrazino, alkylhydrazino, arylhydrazino, alkylcarbonylhydrazino, arylcarbonylhydrazino, hydroxy, alkoxy, aryloxy, alkylthio, arylthio, alkylcarboxy, arylcarboxy, N-protected amino acid, O-protected amino acid and a solid support[.];

In re Application of:

Hong et al.

Application No.: Not Yet Assigned

Filed: July 13, 2005

Page 31

PATENT

Attorney Docket No.: AUSP1100-1

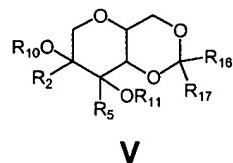
- c)  $R_{15}$  is selected from the group consisting of hydrogen, alkyl, substituted alkyl, alkylcarbonyl, substituted alkylcarbonyl, aryl, arylcarbonyl and hydroxyl protecting group,

With the further proviso that:

- 1) If  $R_{16}$  is methyl then  $R_{17}$  cannot be is not methyl;
- 2) If  $R_{16}$  is hydrogen then  $R_{17}$  cannot be is not phenyl;
- 3) If  $R_2 = R_5 = R_{15} = R_{16} =$  hydrogen and  $R_{14} =$  hydroxy then  $R_{17}$  cannot be is not 3-nitrophenyl[.];
- 4) If  $R_2 = R_5 = R_{14} = R_{15} = R_{16} =$  hydrogen then  $R_{17}$  cannot be is not 4-nitrophenyl[.];
- 5) If  $R_2 = R_5 = R_{14} = R_{15} = R_{16} =$  hydrogen then  $R_{17}$  cannot be is not 4-methoxyphenyl[.];
- 6) If  $R_2 = R_5 = R_{16} =$  hydrogen and  $R_{14} =$  methoxy and  $R_{15} =$  methyl then  $R_{17}$  cannot be is not 4-methoxyphenyl[.]; and
- 7) If  $R_2 = R_5 = R_{15} = R_{16} =$  hydrogen and  $R_{14} =$  hydroxy then  $R_{17}$  cannot be is not 4-methoxyphenyl.

118-121. (Canceled).

122. (Currently amended). A Compounds of formula V, where:



wherein:

In re Application of:

Hong et al.

Application No.: Not Yet Assigned

Filed: July 13, 2005

Page 32

PATENT

Attorney Docket No.: AUSP1100-1

- a)  $R_2, R_5, R_{16}$  and  $R_{17}$  are independently selected from the group consisting of hydrogen, alkyl, substituted alkyl and aryl[[.]]; and
- b)  $R_{10}$  and  $R_{11}$  are independently selected from the group consisting of hydrogen, alkyl, substituted alkyl, alkylcarbonyl, substituted alkylcarbonyl, aryl, arylcarbonyl and hydroxyl protecting group.

With the further proviso that:

1. If  $R_{16}$  is methyl then  $R_{17}$  cannot be is not methyl;
2. If  $R_{16}$  is hydrogen then  $R_{17}$  cannot be is not phenyl;
3. If  $R_2 = R_5 = R_{10} = R_{11} = R_{16} =$  hydrogen then  $R_{17}$  cannot be is not 3-nitrophenyl[[.]];
4. If  $R_2 = R_5 = R_{16} =$  hydrogen and  $R_{14} =$  hydroxy then  $R_{17}$  cannot be is not 4-methoxyphenyl[[.]]; and
5. If  $R_2 = R_5 = R_{16} =$  hydrogen and  $R_{10} = R_{11} =$  methyl then  $R_{17}$  cannot be is not 4-methoxyphenyl.

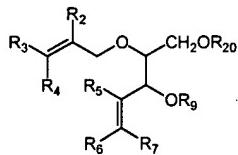
123. (Currently amended). The compound of claim 122, wherein the compound includes all All stereoisomers of compound of formula V, wherein  $R_2 = R_5 = R_{10} = R_{11} =$  hydrogen and  $R_{16} = R_{17} =$  methyl, and compounds selected from the group consisting of (4aS,7R,8R,8aR)-2,2-dimethyl-hexahydropyrano[3,2-d][1,3]dioxine-7,8-diol, (4aS,7S,8S,8aR)-2,2-dimethyl-hexahydropyrano[3,2-d][1,3]dioxine-7,8-diol, (4aR,7R,8R,8aS)-2,2-dimethyl-hexahydropyrano[3,2-d][1,3]dioxine-7,8-diol, (4aS,7R,8R,8aS)-2,2-dimethyl-hexahydropyrano[3,2-d][1,3]dioxine-7,8-diol, (4aR,7S,8S,8aR)-2,2-dimethyl-hexahydropyrano[3,2-d][1,3]dioxine-7,8-diol, (4aS,7S,8S,8aS)-2,2-dimethyl-hexahydropyrano[3,2-d][1,3]dioxine-7,8-diol, and (4aR,7R,8R,8aR)-2,2-dimethyl-hexahydropyrano[3,2-d][1,3]dioxine-7,8-diol.

In re Application of:  
Hong et al.  
Application No.: Not Yet Assigned  
Filed: July 13, 2005  
Page 33

PATENT  
Attorney Docket No.: AUSP1100-1

124-128 (Canceled).

129. (Currently amended). A Compounds of formula W, where:



wherein:

- a) R<sub>2</sub> and R<sub>5</sub> are independently selected from the group consisting of hydrogen, alkyl, substituted alkyl and aryl;
- b) R<sub>3</sub> = R<sub>4</sub> = R<sub>6</sub> = R<sub>7</sub> = hydrogen or R<sub>3</sub>, R<sub>4</sub>, R<sub>6</sub>, R<sub>7</sub> are selected such that three out of four are hydrogen and the fourth is selected from the group consisting of alkyl, substituted alkyl and aryl; and
- c) R<sub>9</sub> and R<sub>20</sub> are independently selected from the group consisting of hydrogen, alkyl, substituted alkyl, alkylcarbonyl, substituted alkylcarbonyl, aryl, arylcarbonyl and hydroxyl protecting group,

With the further proviso that:

- 1) ~~Stereoisomer (2R,3R) cannot does not have R<sub>3</sub> = R<sub>4</sub> = R<sub>6</sub> = R<sub>7</sub> = R<sub>9</sub> = R<sub>20</sub> = hydrogen;~~
- 2) ~~Stereoisomer (2R,3R) cannot does not have R<sub>3</sub> = R<sub>4</sub> = R<sub>6</sub> = R<sub>7</sub> = hydrogen and R<sub>9</sub> = R<sub>20</sub> = benzoyl;~~
- 3) ~~Stereoisomer (2R,3R) cannot does not have R<sub>3</sub> = R<sub>4</sub> = R<sub>7</sub> = R<sub>9</sub> = R<sub>20</sub> = hydrogen and R<sub>6</sub> = methyl;~~
- 4) ~~Stereoisomer (2R,3R) cannot does not have R<sub>3</sub> = R<sub>4</sub> = R<sub>7</sub> = hydrogen and R<sub>6</sub> = methyl and R<sub>9</sub> = R<sub>20</sub> = benzoyl; and~~

In re Application of:

Hong et al.

Application No.: Not Yet Assigned

Filed: July 13, 2005

Page 34

PATENT

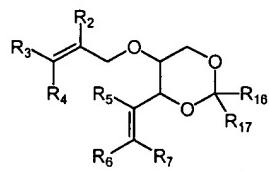
Attorney Docket No.: AUSP1100-1

5) If  $R_{20}$  = benzyl then  $R_3, R_4, R_6, R_7, R_9$  cannot be is not hydrogen.

130. (Currently amended) The compound of claim 129, wherein the compound includes all All stereoisomers of compound of formula W, wherein  $R_1$  = ethyl and  $R_2 = R_3 = R_4 = R_5 = R_6 = R_7 = R_9$  = hydrogen and compounds selected from the group consisting of (2S,3S)-2-allyloxy-pent-4-ene-1,3-diol, (2R,3S)-2-allyloxy-pent-4-ene-1,3-diol, and (2S,3R)-2-allyloxy-pent-4-ene-1,3-diol.

131-135. (Canceled).

136. (Currently amended). A Compounds of formula X, where:



X

wherein:

- a)  $R_2$  and  $R_5$  are independently selected from the group consisting of hydrogen, alkyl, substituted alkyl and aryl;
- b)  $R_3 = R_4 = R_6 = R_7$  = hydrogen or  $R_3, R_4, R_6, R_7$  are selected such that three out of four are hydrogen and the fourth is selected from the group consisting of alkyl, substituted alkyl and aryl; and
- c)  $R_{16}$  and  $R_{17}$  are independently selected from the group consisting of hydrogen, alkyl, substituted alkyl and aryl.

137. The compound of claim 129, wherein the compound includes all All stereoisomers of compounds of formula X, wherein  $R_2 = R_3 = R_4 = R_5 = R_6 = R_7 =$  hydrogen and  $R_{16} = R_{17} =$

In re Application of:  
Hong et al.  
Application No.: Not Yet Assigned  
Filed: July 13, 2005  
Page 35

PATENT  
Attorney Docket No.: AUSP1100-1

methyl, and compounds selected from the group consisting (5R,6R)-5-allyloxy-2,2-dimethyl-4-vinyl-[1,3]dioxane, (5S,6S)-5-allyloxy-2,2-dimethyl-4-vinyl-[1,3]dioxane, (5S,6R)-5-allyloxy-2,2-dimethyl-4-vinyl-[1,3]dioxane, and (5R,6S)-5-allyloxy-2,2-dimethyl-4-vinyl-[1,3]dioxane.

138-173. (Canceled).